GAL'FERINA, R.Ye.

Some neurodynamic changes under the influence of small doses of alcohol in chronic alcoholism. Probl.sud.psikh. no.12:131-138 '62.

(ALCOHOLISM) (ELECTROENCEPHALOGRAPHY)

(ALCOHOLISM) (ELECTROENCEPHALOGRAPHY)

BANSHCHIKOV, V.M., prof.; YUMASHEVA, Yu.S., kand. med. nauk; GAL'PERINA, R.Ye.

Treating schizophrenia with stelazine. Trudy 1-go MMI 25:53-58 163.

(MIRA 17:12)

1. Kafedra psikhiatrii, 1-y Moskovskiy ordena Lenina meditainskiy institut imeni I.M.Sechenova (zav. kafedroy prof. V.M.Banshchikov).

GAL'PERINA, R.Ye.

Use of neuroleptic drugs in treating hypertension with mental disorders.

Trudy 1-go MMI 25:229-239 63. (MIRA 17:12)

1. Kafedra psikhiatrii 1-go Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova (zav. kafedroy prof. V.M.Banshchikov).

MASLIYEV, A.T., dotsent; YUMASHEVA, Yu.S., kand. med. nauk; GAL'PERINA, R.Te.; DROBIZHEV. Yu.Z.

Treatment of depressive states with miamid (mialamide). Trudy 1-go MMI 25:279-286 163. (MIRA 17:12)

l. Kafedra psikhiatrii l-ge Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova (zav. kafedroy prof. V.M.Banshchikov).

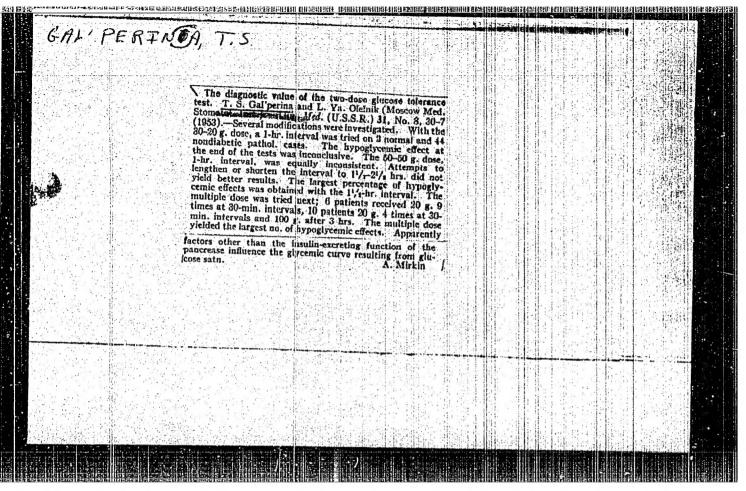
GAL PERINA, R.Ye.

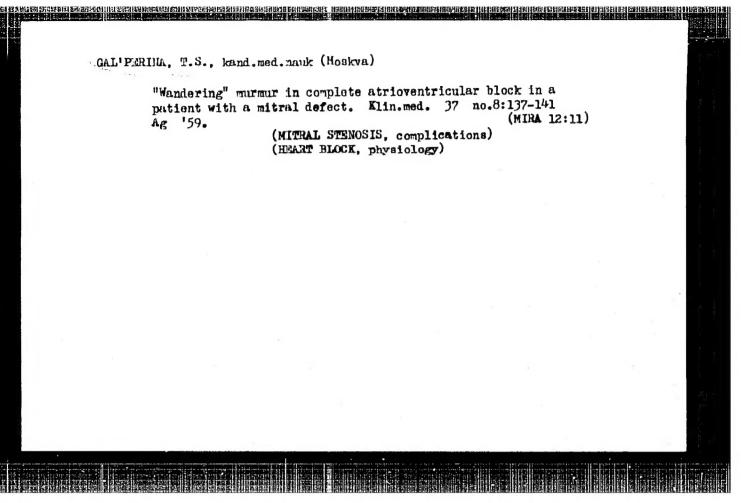
Use of mebedrol in encephalitis with mental disorders. Trudy 1-go MMI 25:365-373 '63. (MIRA 17:12)

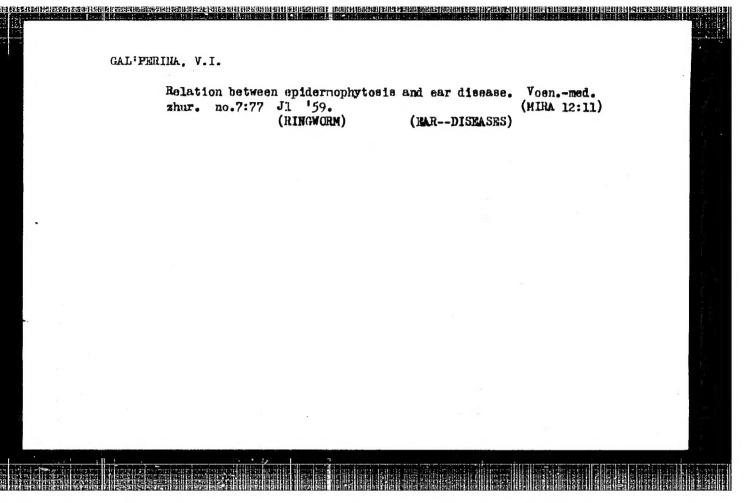
l. Kafedra psikhiatrii l-go Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechencva (zav. kafedroy prof. V.M. Banshchikov).

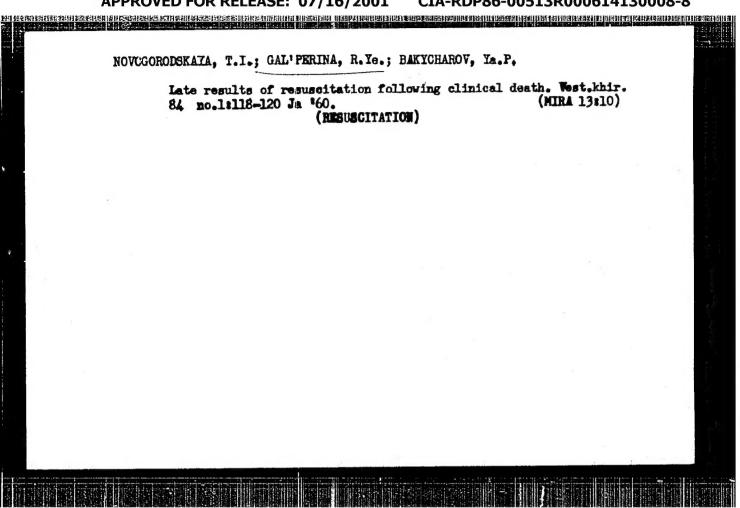
Treatment with nominan in combination with stellarine, aminawine and tofranil (melipramine) as one of the variations of the compound therapy in psychoses. Trudy 1-go MMI 34x416-424 (64. (MIRA 18:11)

1. Kafedra psikhiatril (zav. - zasluzhennyy deyatel rauki prof. V.M. Banshchikov) 1-go Moskovskogo ordena Lenina meditainskogo instituta imeni Sechenova.









IERMAN, L.Ya.; OAL'PERINA, Ie.L.

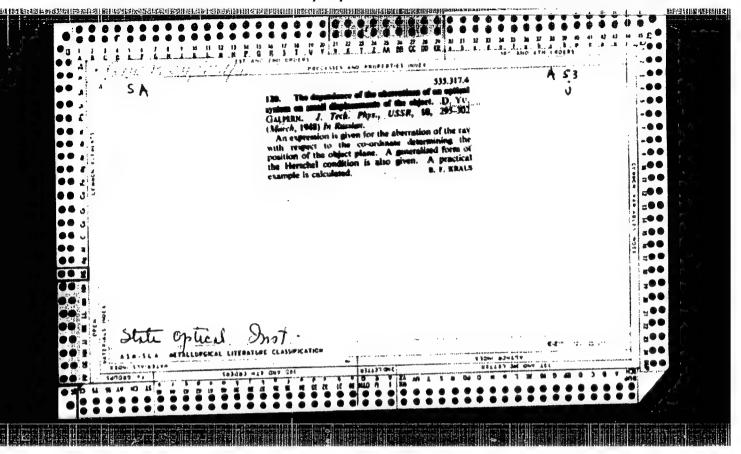
Hew data on the crystalline structure of Bi<sub>2</sub>O<sub>3</sub>.2MeO<sub>3</sub>.

Zhur.meorg.khim. 11 no.1:221 Ja '66. (HIRA 19:1)

1. Submitted May 20, 1965.

Experienc in mechanizing the unloading and piling of beets at the sugar factories of Kirghixistan. Sakh.prom. 34 no.7:42-46
J1 '60.

1. Kirgiskiy sovrarkhos.
(Kirghizistan-Sugar beets) (Loading and unloading)



K-2

CALPERK, DYW

Category : USSR/Optics - Geometric Media

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 4840

Author

: Gal'pern, D.Yu. : Geometrical Optics in Anisotropic Media with a Single Symmetry Axis. Title

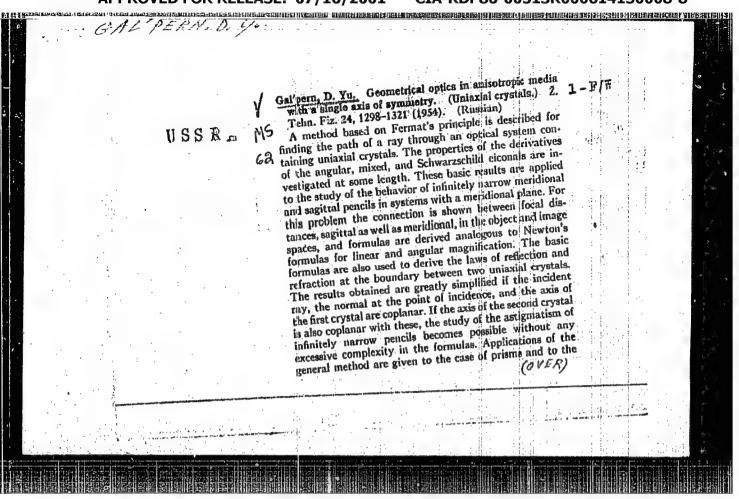
(Single-Axis Crystals)

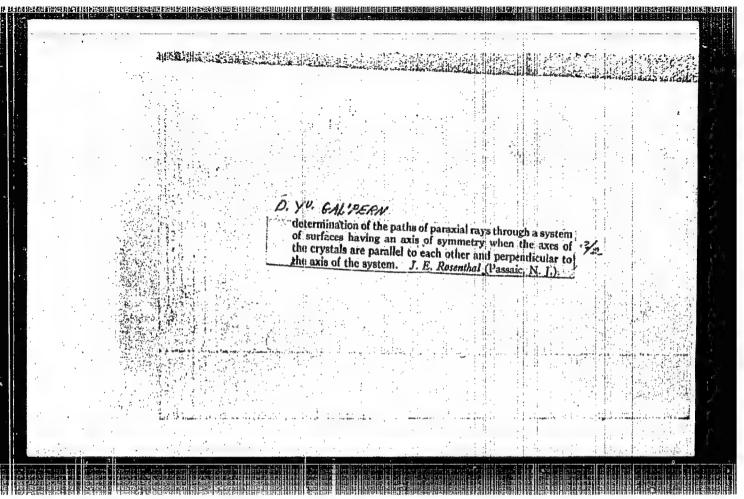
Orig Pub : Zh. tekhn. fiziki, 1954, 24, No 7, 1298-1321

Abstract : No abstract

: 1/1 Card

CIA-RDP86-00513R000614130008-8" APPROVED FOR RELEASE: 07/16/2001





GREDERN D. YU.

51-5-9/11

AUTHOR: Galpern, D. Yu.

TITLE: On the Application of Higher Order Aberration Theory to the Calculation of Optical Systems (O prilozhenii teorii aberratsiy vysshikh poryadkov k raschetu opticheskikh sistem)

PERIODICAL: Optika i Spektroskopiya, 1957, Vol.III, Nr 5, pp.514-528 (USSR)

ABSTRACT: On the basis of higher order aberration theory a number of general propositions which are important in the calculation of optical systems is established. The question of the number of lenses and nonspherical surfaces in an optical system necessary (but not sufficient) for the correction of all aberrations of order 2t + 1 or less, is elucidated. The role of coefficients of aberration of order 2t - 1 or less in the appearance of aberrations of order 2t + 1 is considered, particularly the role of third order aberrations in the appearance of fifth order aberrations. The paper is highly mathematical.

SUBMITTED: March 23, 1957.

AVAILABLE: Library of Congress.

Card 1/1

3(4) AUTHOR:

Gal'pern, D. Yu.

SOV/154-59-1-9/19

TITLE:

Telescopes in Modern Geodetical Instruments (Zritel'nyye

truby sovremennykh geodezicheskikh priborov)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Geodeziya i aerofotos"-

yemka, 1959, Nr 1, pp 91-94 (USSR)

ABSTRACT:

The object lenses of telescopes in modern geodetical instruments are telephoto lenses. This ensures very important technical properties of the instruments but leads simultaneously to great difficulties in the computation and manufacture of telescopes. Great difficulties arise in the correction of chromatic aberrations. Chromatic aberrations of rays spreading in the paraxial range, and then the spherochromatic aberration are investigated here. The theoretical investigations and the experience of practical computations show that for the correction of the spherochromatic aberration some surfaces of the system must inevitably have a strong curvature. These offer difficulties in the manufacture. — Due to such deliberations, the computation of a telescope with the same characteristics as for the telescopes of the instruments TB and KB was carried out in 1955.

Card 1/2

Telescopes in Modern Geodetical Instruments

SOV/154-59-1-9/19

(1945-195-1959) [195] (

The computed values of the spherochromatic aberration of the new telescope amount to half the aberration of the telescope of the two instruments TB and KB. - In spite of this, no telescope has been made according to this computation up to date. It is also pointed out that the quality of the pictures is not only determined by the computation but also by a careful assembly and manufacture of the individual structural groups. - H. Koehler (Ref 1) pointed out that the chromatic aberration for rays with the wave length = 434 mm attains high values in many telescopes. He succeeded in reducing this value down to 10' - 15', - Telescopes with a correction of the aberration for the wave length of 434 mm will be computed in 1958. This system will then be compared with the telescope computed in 1955, and the question of an economical correction of the aberration for telescopes of geodetical instruments will be solved. There are 1 figure, 1 table, and 1 reference.

ASSOCIATION:

Gosudarstvennyy opticheskiy institut im. S. I. Vavilova (State Optical Institute imeni S. I. Vavilov)

Card 2/2

24(4) AUTHOR:

Gal'pern, D.Yu., Reviewer

SOV/51-6-5-33/34

TITLE :

F.I. Fedorov. Optics of Anisotropic Media. Academy of Sciences of the Byelorussian S.S.R., Minsk, 1958. (F.I. Fedorov. Optika anizotropnykh sred. Izdaniye AN BSSR, Minsk, 1958)

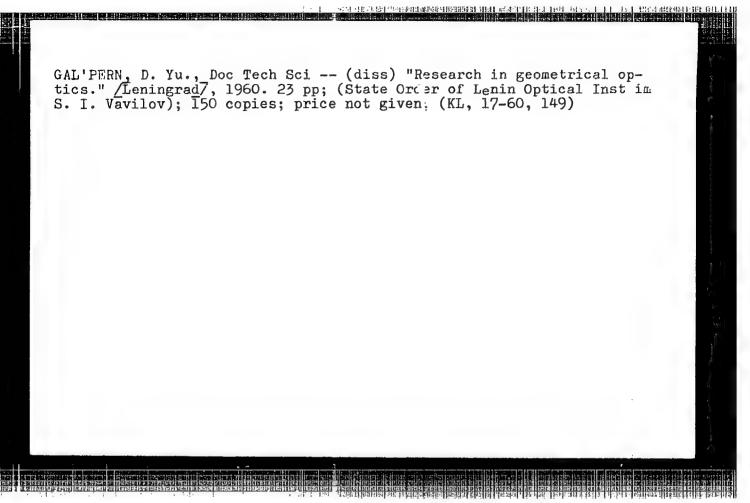
PERIODICAL:

Optika i Spektroskopiya, 1959, Vol 6, Nr 5, pp 714-715 (USSR)

ABSTRACT:

The above monograph by Fedorov starts with Maxwell's and constitutive equations and uses them to discuss propagation of plane waves in an infinite medium as well as reflection and refraction of plane waves at plane boundaries of two infinite media. The monograph deals consecutively with propagation of light in an isotropic non-conducting and non-magnetic medium, in anisotropic non-conducting and non-magnetic medium and finally in an anisotropic conducting and non-magnetic medium. The special feature of the monograph is that Fedorov discusses the subject using vectors and tensors which are not bound up with any particular system of coordinates. After minor criticisms the reviewer recommends the book to all those who want to study electro-magnetic optics seriously, and the first chapter is recommended to beginners in physical optics.

Card 1/1



1 us, 257/257)

33020 R \$/051/60/009/004/034/034 E032/E414

.. Crhor:

Gal'pern, D.Yu.

TITLE:

On apodization

ERIODIC Optika i spektroskopiya, 1960, Vol.9, No.4, pp.549-550

EXT: The present note deals with apodization, i.e. with methods of decreasing the diameter of the central diffraction spot (Airy's disc) in the image of a luminous point. This can be done with the aid of an amplitude-phase filter in the form of suitably shaped glass plate with appropriate transmissions at various points along the plate. It is known (Ref.1: G.G.Slyusarev, GITL, M., tr.667-671, 1937) that in the paraxial position, the intensity istribution  $E(\rho)$  in the image of a luminous point is given by

$$E(\rho) = \sqrt{C^2(\rho) + S^2(\rho)}. \tag{1}$$

where

$$S(\rho) = \int_{0}^{\sigma_{\rm KD}} A_1(\sigma) \sin\left[\frac{2\pi}{\lambda} i(\sigma)\right] I_0\left(\frac{2\pi}{\lambda} \sigma \rho\right) \sigma d\sigma, \qquad (2)$$

$$C(\rho) = \int_{0}^{\sigma_{\rm Mpo}} A_1(\sigma) \cos\left[\frac{2\pi}{\lambda} I(\sigma)\right] I_0\left(\frac{2\pi}{\lambda} \sigma_{\rho}\right) \sigma d\tau, \qquad (2a)$$

Card 1/2

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On apodization

\$/051/60/009/004/034/034 E032/E414

It is shown in the present paper that when  $(\sigma) < \frac{1}{4}\lambda$  and  $(\sigma) > 0$  i.e. when it is assumed that the wave aberration is less than a quarter of the wavelength, a filter of the above type cannot reduce the size of the central diffraction disc by a factor greater than 1.6. There is 1 Soviet reference.

JUMITTED: August 15, 1960

Card 2/2

24.33.00

S/051/62/013/001/012/019 E052/E114

AUTHOR:

Gal'pern, D.Yu.

TITLE:

the breakdown of one-to-one correspondence between

image and object

PERIODICAL: Optika i spektroskopiya, v.13, no.1, 1962, 124-128

TEXT: It is shown that different series of different (self-luminous and non-selfluminous) objects will, under certain conditions, produce rigorously identical images. It follows that in general it is not possible to use a known image to reconstruct the distribution of luminance or the amplitude distribution in the object plane. Strictly speaking, this does not contradict the results of B.S. Tsybakov and V.P. Yakovlev (Izv. vysshikh uch. zav., Radiofizika, v.l, no.5-6, 1958) and H. Wolter (Opt. Acta, 7, 1960, 55) since these workers assumed the object to be finite. The present analysis is based on a re-examination of the theorems of V.S. Ignatovskiy (Izv. AN SSSR, Otd. mat. i yestestv. nauk, series VII, no.6, 1935, 729) who considered infinite objects. These theorems thus turn out to apply to coherent objects also, and the fact that they hold rigorously for infinite objects only Card 1/2

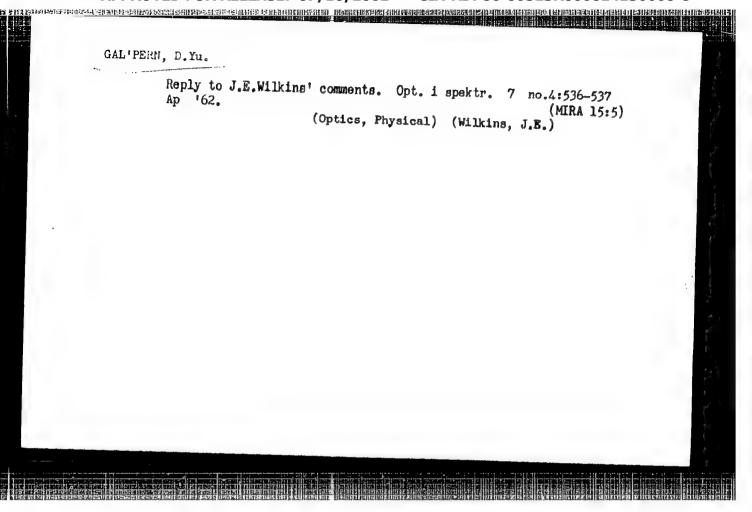
On the breakdown of one-to-one ...

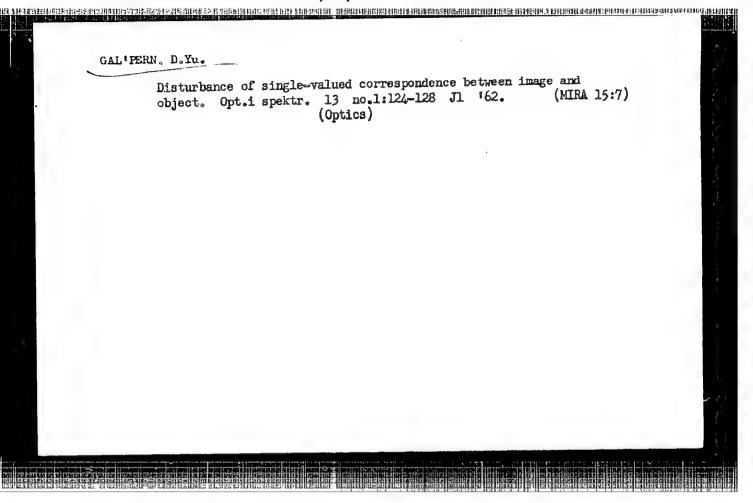
5/051/62/013/001/012/019 E052/E114

does not impose a stringent limitation because, for example, the field of view of a microscope is of the order of 1000-1500 optical units. The general conclusion is that periodic components in the expansion of the function describing the luminance or amplitude distribution in the image plane give rise to a uniform background when the period is less than IT units in the case of non-coherent objects, and less than 2T units in the case of coherent objects.

SUBMITTED: June 8, 1961

Card 2/2

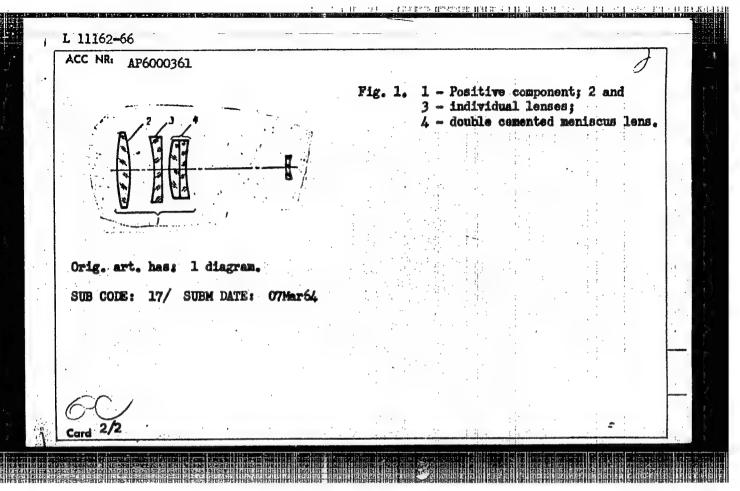




ACC NR: AP6000361	SOURCE CODE: UR/0286/65	5/000/021/0056/	0057
AUTHORS: Gallpern,	D. Yu.; Pronina, O. V.		29
ORG: none	orian Anthropen		1 E
TITLE: Objective for	or geodetic telescopes, Class 42, No. 176092		1.
SOURCE: Byulleten!	izobreteniy i tovarnykh znakov, no. 21, 1965,	56-57	
TOPIC TAGS: optic 1	lens, telescope lens, geodetic instrument	. ,	
ABSTRACT: This Auth with internal focusi a simple negative fo	or Certificate presents an objective for gooding. The device consists of a positive four-leading lens (see Fig. 1). To correct spheres	ens component	and
ABSTRACT: This Authwith internal focusia simple negative for the positive componentance of 0.1—0.2 of	for Certificate presents an objective for gooding. The device consists of a positive four-lecusing lens (see Fig. 1). To correct spherocent is in the form of two individual lenses see the focal length of the positive component as sust a linear magnification of 0.40.8.	ens component?	and
ABSTRACT: This Authwith internal focusia simple negative for the positive componentance of 0.1—0.2 of	ocusing lens (see Fig. 1). To correct spherocent is in the form of two individual lenses see the focal length of the positive commonent of	ens component?	and
ABSTRACT: This Authwith internal focusia simple negative for the positive componentance of 0.1—0.2 of	ocusing lens (see Fig. 1). To correct spherocent is in the form of two individual lenses see the focal length of the positive commonent of	ens component?	and
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ABSTRACT: This Authwith internal focusi a simple negative for the positive compone tance of 0.1—0.2 of	ocusing lens (see Fig. 1). To correct spherocent is in the form of two individual lenses see the focal length of the positive commonent of	ens component? diromatic aberra parated by a di nd a double	and

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<u>L 7012-06</u>

ACC NR: AP5026798

SOURCE CODE: UR/0286/65/000/017/0078/0078

AUTHOR: Poltyreva, Ye. S.; Gal'pern, D. Yu.

B

TITLE: An apochromatic Petzval lens. Class 42, No. 174395 [announced by Organization of the Ministry of the Defense Industry (Organizatsiya ministerstva oboronnoy promy-

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 17, 1965, 78

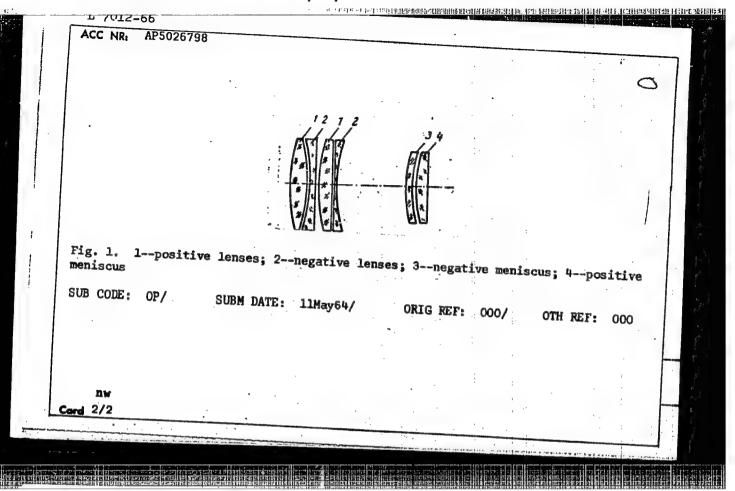
TOPIC TAGS: photographic lens, Petzval lens

ABSTRACT: This Author's Certificate introduces an apochromatic Petzval lens made up of two positive elements, each of which is combined with a negative element placed behind the positive element and separated from it by an air gap. Correction for spherochromatic abberation is provided by two meniscus elements, one negative and the other positive, with the concave surface facing the image. This compound correction system has a positive power and is located behind the first four lenses.

UDC: 535.824.28

Card 1/2

0901 1900



AUTHOR: Gal'pern, D. Yu.  ORG: none  TITLE: Estimate of frequency-contrast characteristic with the aid of the Rayleigh criterion  SOURCE: Optiko-mekhanicheskaya promyshlennost', no. 7, 1966, 22-26  TOPIC TAGS: optic system, image contrast, light aberration, photographic lens, light diffraction  ABSTRACT: The author presents a method of estimating the frequency-contrast characteristic of an optical system from the transverse geometrical aberrations, for periods based on a principle similar to the Rayleigh criterion whereby a wave aberration by one warrer of a wavelength is admissible. The existence of a similar criterion for technique and its applicability region is then estimated and illustrated with numerical examples. The results lead to an estimate, based on the calculation of the ray path and the construction of aberration plots, of a frequency-contrast characteristic presented in the article makes it possible to establish the permissible transverse aberrations for photographic and projection lenses whose actual resolution limit is	ACC NR	AD COMPANY
ORG: none  TITLE: Estimate of frequency-contrast characteristic with the aid of the Rayleigh criterion  SOURCE: Optiko-mekhanicheskaya promyshlennost', no. 7, 1966, 22-26  TOPIC TAGS: optic system, image contrast, light aberration, photographic lens, light diffraction  ABSTRACT: The author presents a method of estimating the frequency-contrast characteristic of an optical system from the transverse geometrical aberrations, for periods based on a principle similar to the Rayleigh criterion whereby a wave aberration by one wearter of a wavelength is admissible. The existence of a similar criterion for technique and its applicability region is then estimated and illustrated with numerical examples. The results lead to an estimate, based on the calculation of the ray path and the construction of aberration plots, of a frequency-contrast characteristic presented in the article makes it possible to establish the permissible transverse aberrations for photographic and projection lenses whose actual resolution limit is		SOURCE CODE: UR/0237/66/000/007/0022/00267
TITLE: Estimate of frequency-contrast characteristic with the aid of the Rayleigh criterion  SOURCE: Optiko-mekhanicheskaya promyshlennost', no. 7, 1966, 22-26  TOPIC TAGS: optic system, image contrast, light aberration, photographic lens, light diffraction  ABSTRACT: The author presents a method of estimating the frequency-contrast characteristic of an optical system from the transverse geometrical aberrations, for periods based on a principle similar to the Rayleigh criterion whereby a wave aberration by the frequency-contrast characteristic is first proved by the standard vector-addition technique and its applicability region is then estimated and illustrated with numerical examples. The results lead to an estimate, based on the calculation of the ray for frequencies which are 10 - 20 times smaller than the limiting values. The method aberrations for photographic and projection lenses whose actual resolution limit is	AUTHOR:	Gal'pern, D. Yu.
SOURCE: Optiko-mekhanicheskaya promyshlennost', no. 7, 1966, 22-26 TOPIC TAGS: optic system, image contrast, light aberration, photographic lens, light ABSTRACT: The author presents a method of estimating the frequency-contrast characteristic of an optical system from the transverse geometrical aberrations, for periods which are approximately ten times larger than the limiting period. The estimate is based on a principle similar to the Rayleigh criterion whereby a wave aberration by the frequency-contrast characteristic is first proved by the standard vector-addition technique and its applicability region is then estimated and illustrated with numerical examples. The results lead to an estimate, based on the calculation of the ray for frequencies which are 10 - 20 times smaller than the limiting values. The method interactions for photographic and projection lenses whose actual resolution limit is	ORG: no	one 42
ABSTRACT: The author presents a method of estimating the frequency-contrast characteristic of an optical system from the transverse geometrical aberrations, for periods based on a principle similar to the Rayleigh criterion whereby a wave aberration by the frequency-contrast characteristic is first proved by the standard vector-addition technique and its applicability region is then estimated and illustrated with numerical examples. The results lead to an estimate, based on the calculation of the ray path and the construction of aberration plots, of a frequency-contrast characteristic presented in the article makes it possible to establish the permissible transverse aberrations for photographic and projection lenses whose actual resolution limit is	TITLE: criterio	Estimate of frequency-contrast characteristic with the aid of the Rayleigh
ABSTRACT: The author presents a method of estimating the frequency-contrast characteristic of an optical system from the transverse geometrical aberrations, for periods based on a principle similar to the Rayleigh criterion whereby a wave aberration by the frequency-contrast characteristic is first proved by the standard vector-addition technique and its applicability region is then estimated and illustrated with numerical examples. The results lead to an estimate, based on the calculation of the ray path and the construction of aberration plots, of a frequency-contrast characteristic presented in the article makes it possible to establish the permissible transverse aberrations for photographic and projection lenses whose actual resolution limit is	SOURCE:	Optiko-mekhanicheskaya promyshlennost', no. 7, 1966, 22-26
ABSTRACT: The author presents a method of estimating the frequency-contrast characteristic of an optical system from the transverse geometrical aberrations, for periods which are approximately ten times larger than the limiting period. The estimate is based on a principle similar to the Rayleigh criterion whereby a wave aberration by one wearter of a wavelength is admissible. The existence of a similar criterion for the frequency-contrast characteristic is first proved by the standard vector-addition cal examples. The results lead to an estimate, based on the calculation of the ray path and the construction of aberration plots, of a frequency-contrast characteristic presented in the article makes it possible to establish the permissible transverse aberrations for photographic and projection lenses whose actual resolution limit is	diffract	tion optic system, image contrast, light aberration, photographic lens, light
2)/ ///	which ar based on one wuar the freq technique cal exampath and for freq presented aberration	re approximately ten times larger than the limiting period. The estimate is a principle similar to the Rayleigh criterion whereby a wave aberration by the standard vector of a similar criterion for meand its applicability region is then estimated and illustrated with numeriables. The results lead to an estimate, based on the calculation of the ray mencies which are 10 - 20 times smaller than the limiting values. The method ons for photographic and projection lenses whose actual resolution limit is
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ACC NR: AP7009117 (A) SOURCE CODE: UR/0413/67/000/603/0167/0107 INVENTOR: Gal'pern, D. Yu.; Nefedov, B. L.; Sharkunov, I. V.

ORG: None

TITLE: A nonocular optical system for observation and sighting. Class 42, No. 191162

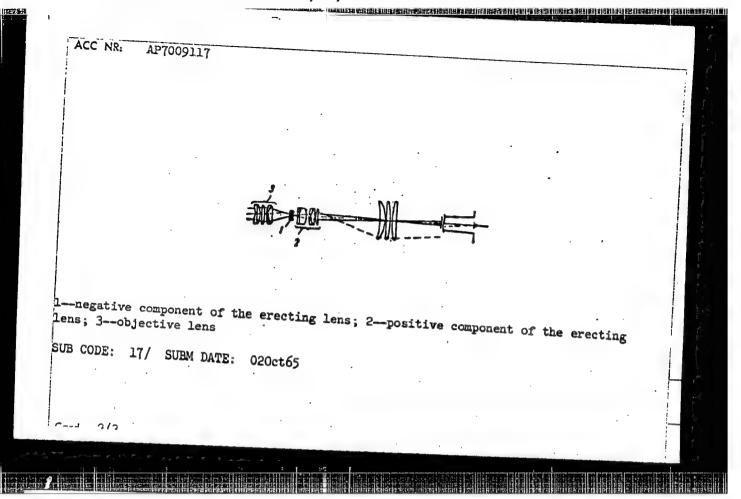
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 3, 1967, 107

TOPIC TAGS: optic instrument, telescopic equipment, optic detection

ABSTRACT: This Author's Certificate introduces a nonocular optical system for observation and sighting. The installation contains an objective lens, a compound erecting lens and a collector in direct proximity to the image surface. Correction for the curvature of the image surface is provided by using a negative and a positive component in the erecting lens. The negative component is used for matching the entrance pupil of the erecting lens to the exit pupil of the objective lens and has a power 20% greater in absolute value than the combined power of the other components.

Card 1/2

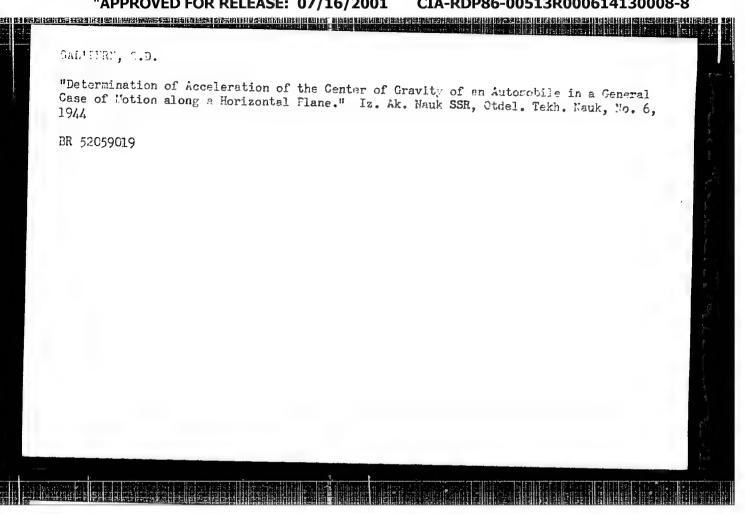
UDC: 535.821.]



LEVENSON, Viktor Emmanuilovich; GAL'FERN, G.D., doktor khim. nauk, otv. red.; KOTLYAREVSKAYA, P.S., red.; DOROKHINA, I.N., tekhn. red.

[Geochemistry of bitumen and its problems]Geokhimicheskaia bituminologiia i ee problemy. Moskva, Izd-vo Akad. nauk SSSR. Vol.3. 1963. 198 p. (MIRA 16:4)

(Bitumen--Geology)



Institute of Machine Studies, Acad. of Sci., USSR (-1944-)
"Concerning the Optimum Content of Entectic in Foundry Alloys." Iz. Ak. Nauk. SSSR, Otdel. Tekh. Nauk, No. 6, 1944

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USSR/Medicine - Fungi

Medicine - Environment

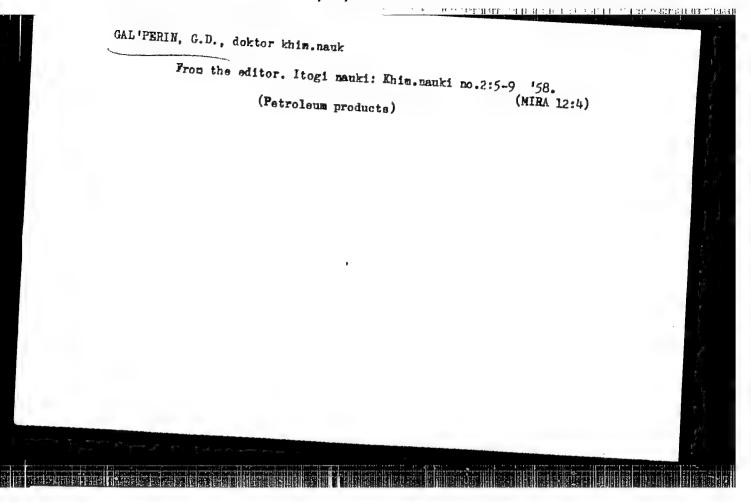
Apr 1948

"Geotropism in the Fruit Bodies of Higher Fungi," G. D. Gal'pern, l;p

"Priroda" No 4

Reports observations made on fungi growing on birch stumps. Geotropism in Polyporaceae is effected by altering direction of growth, while in Agaricaceae it is due to bending of stem tissue. Illustrates process with photographs and diagrams.

78151



Car United G.M.; MARARIVICH, L.M.

Lettermination of phenyl renazate by spectrophenically.

Zav.lab. 31 nc.4:414-415 '65. (U.M. 13:17)

1. Opytho-konstruktorskoye byuro mintsticheshish progratuw.

GAL'PERN, I.L.

Effect of the semen of a different breed on the quality of offspring in chickens [with summary in English]. Zhur.ob.biol. 19 no.3:217-225 My-Je 158. (MIRA 11:6)

FOMIN, A.I., kand.sel'skokhoz.nauk; GAL'PERN, I.L., starshiy nauchnyy sotrudnik

Increasing the viability and productivity in general-purpose hens by crisscrossing them with roosters of the same and a different breed. Ptitsevodstvo 9 no.9:32-35 (MIRA 12:12)

1. Pushkinskaya nauchno-issledovatel'skaya laboratoriya rasvedeniya sel'skokhozyaystvennykh zhivotnykh.

(Poultry breeding)

GAL'PERN, I. L. Cand Agr Sci -- "Effect of foreign-breed semen upon the quality of progeny and peculiarities of the sexual process in hens."

Pushkin-Len, 1961 (Min of Agr ESFSR. Len Agr Inst). (KL, 4-61, 204)

279

USSR/Medicine - Ma'aria

"Elimination of Tropical Malaria in Zaporozhskaya
Oblast," Ya. M. Be'yy, I. Yu. Gal'pern; Zaporozhskaya Oblast Antimilaria Sta

Med Parazitol i Parazitar Bol, No 3, pp 221-223

As a result of the German occupation, the incidence
of tropical malaria in Zaporozhskaya Oblast increased
considerably. By the application of rigid measures
in postwar years, tropical malaria was entirely
eliminated in 1952. The number of cases was as
follows: in 1946, 226; in 1947, 335; in 1949, 558;
in 1949, 297; in 1550, 25; in 1951, 3; in 1952, none.

Synthesis of hydrocarions. Part Six Puckpropanes with quaternary no.57785-788 My '65.

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

CAL FERN,	
	llaneous-Production
Card 1/1	
itle	: Gal'pern, M. I., Cand. of Techn. Sciences
priodical	Machines for production of block rubble
	THE PARTY OF THE P
bstract	Mekh. Trud. Rabot., 2, 44 - 46, March 1954  Construction industry has recently adopted several new types of stone cutters for the manufacture of block rubble. Some of these machines already underwent industrial tests and were found satisfactory. This report offers data on such machines and results obtained through their exploitation. Photo of such a stone cutting machine is included.
etract	cutters for the manufacture of block rubble. Some of these machines already underwent industrial tests and were found satisfactory. This

CAL PERK, M.L.

Subject

: USSR/Electricity

AID P - 1216

Card 1/1

· Pub. 27 - 11/34

Authors

: Gal'pern. M. L., Eng., Udovichenko, B. A., Kand. of Tech. Sci., and Voyevodin, K. N., Eng., Tashkent

Title

: Application of flat metallic supporting structures

Periodical

: Elektrichestvo, 12, 57-61, D 1954

Abstract

: The authors consider as advisable the use of such structures for 35-kv transmission lines. They develop a method of determining additional forces in unbroken conductors at symmetrical and asymmetrical breaks. They examine the performance of the transmission line when a wind is directed along the line. Il photographs, drawings and diagrams. Four Russian references (1, 1928; 3, 1947-1952).

Institution: None

Submitted

: J1 17, 1954

GALFIRN M.L

Subject : USSR/Electricity

Card 1/1

Pub. 27 - 16/34

Authors

: Gal'pern, M. L., Petrosov, V. D. and Pekson, G. M., Engs.

Title

: Basic problems of design of regional substations with three voltages (Article by Ye. A. Bugrinov, Elektrichestvo, No. 3,

AID P - 1221

1954) (Discussion)

Periodical: Elektrichestvo, 12, 73, D 1954

Abstract

The authors consider that the sectionalizing of separate

bus-bar systems by one disconnector, as proposed by

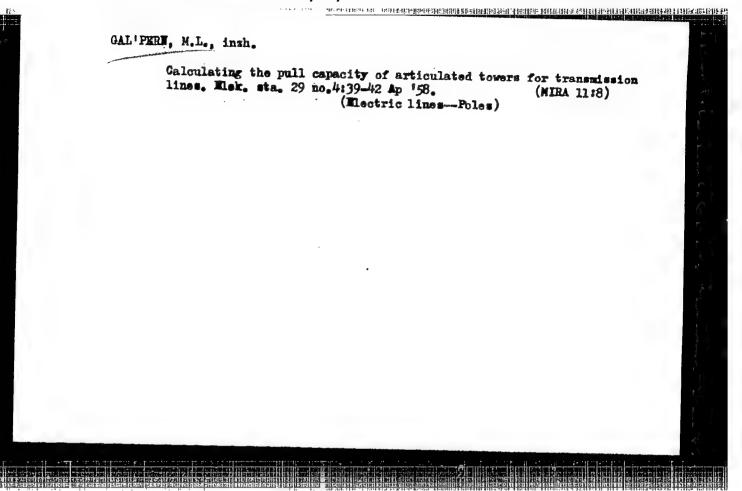
Ye. A. Bugrinov, does not always make it possible to make repairs without disconnecting the whole substation. offer a different solution and discuss the problem.

diagram.

Institution : Uzbekenergo

Submitted

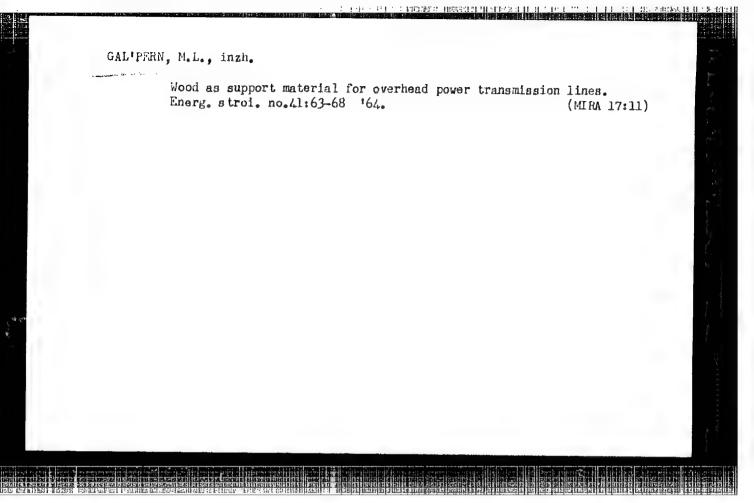
: No date



BATISHCHEV, K.N., inzh.; B'LLANKIN, A.I., inzh.; GAL'PENN, M.L., inzh.

Concerning the use of VVN-220 air cutouts. Elek. sta. 33 no.6:
53-56 Je '62.

(Electric cutouts)



CALIFERN, N. A. Engineer

"High Froduction Attachments," Stanki i Instrument, 10, No. 12, 1939.

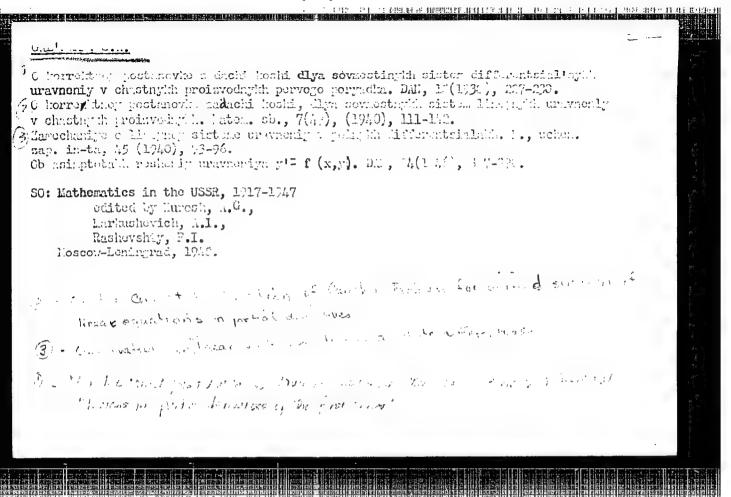
Report U-1505, 4 Oct 1951.

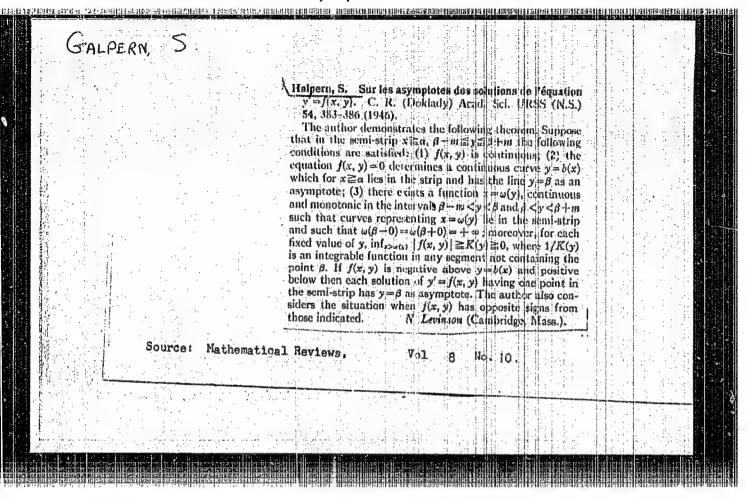
CAL' PERT. N.K., kand.tekhn.nauk, dots.

Calculating electromagnets with an external rotating armature.
Elektrichestvo no.12:77-78 D '57. (MIRA 10:12)

1. Leningradskiy politekhnicheskiy institut im. Kalinina.

(Electromagnets)





PETROVSKIY, I.G.; VOVCHENKO, G.D.; SALISHCHEV, K.A.; SERGEYEV, E.M.;

MOSKYITIN, V.V.; SRETENSKIY, L.V.; GELIFOND, A.D.; GOLUBEV, V.V.;

ALEKSANDROV, P.S.; SOBOLEY, S.L.; BAKHVALOV, S.B.; OGUBALOV, P.M.;

KRRYNES, M.A.; MYASNIKOV, P.V.; ZHIDKOV, M.P.; GALIPERN, S.A.;

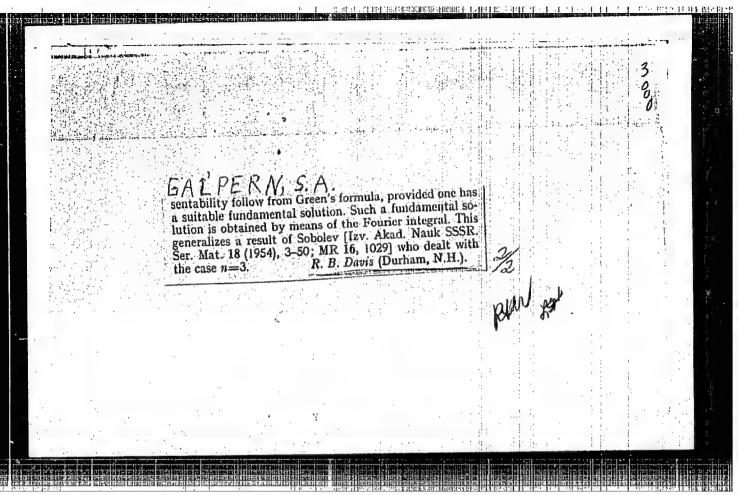
ZHEGAIKINA-SLUDSKAYA, M.A.

Vsevolod Aleksandrovich Kudriavtsev; obituary. Vest. Mosk.un. 8

no.12:129 D \*53. (Mura 7:2)

(Kudriavtsev, Vsevolod Aleksandrovich, 1885-1953)

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Carpe,	N 5-C 3
	Gal'pern, S. A. Cauchy's problem for an equation of  (N.S.) 104 (1955), 815-818. (Russian)
	This paper considers explicit representations for solutions of $(\partial/\partial t)^2 \Delta u = -(\partial/\partial x_n)^2 u + j(t, x_1, x_2, \dots, x_n)$
	with initial conditions $u = \phi \text{ when } t = 0, \ (\partial u/\partial t) = \psi \text{ when } t = 0.$
	Here $\Delta u$ denotes the $v$ -dimensional Laplacian of $u$ , $\Delta u = [(\partial/\partial x_1)^2 + (\partial/\partial x_2)^2 + \cdots + (\partial/\partial x_n)^3]u.$
	It is proved that solutions of this initial-value problem are unique, and that every sufficiently smooth solution can be represented in the form
	$u(t, x_1, \cdots, x_n) = \int_{\Delta^n \phi(\xi_1, \cdots, \xi_n)} H^{(n)}(t, x_1 - \xi_1, \cdots, x_n) - \xi_n) d\xi_1 \cdot d\xi_n$
	provided one first reduces to an equivalent problem where $\psi=0$ . Here s is an integer which must be chosen in a suitable way, and an explicit expression is given for $H^{(0)}$ , obtained by inverting the order of integration in a Fourier transform. Both the uniqueness and the rapre-
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ransactions of the filled All-which radonalists AN SSS Moscow, 195 Jun-Jul '56, Trudy '56, V. l. Sect. Rpts., Izdatel'styp AN SSS Moscow, 195 abib-Zade, A. Sh. (Baku). Investigation of the Ramification	56, 237 pp.
abib-Zade, A. Sh. (Baku). Investigation of the Ramilleation abib-Zade, A. Sh. (Baku). Investigation abib-Zade, A. Sh. (Baku).	44-45
avrilov, N. I. (Odessa). New Method Based on the Theory of Moments, for Investigating Non-linear Differential Equations.	45-46
lagua, M. B. (Tbilisi). On the Completeness of Systems of Harmonic Functions	46
Mention is made of Keldysh, M. V.	
Ral'pern, S. A. (Moscow). Cauchy Problem for the Equations of S. L. Sobolev Type	47-48
There is mention of Petrovskiy, I. G.	
There are 4 references, all of them USSR.	
Gakhov, F. D. (Rostov-na-Donu). Chibrikova, L. I. (Kazan') Card 15/80	

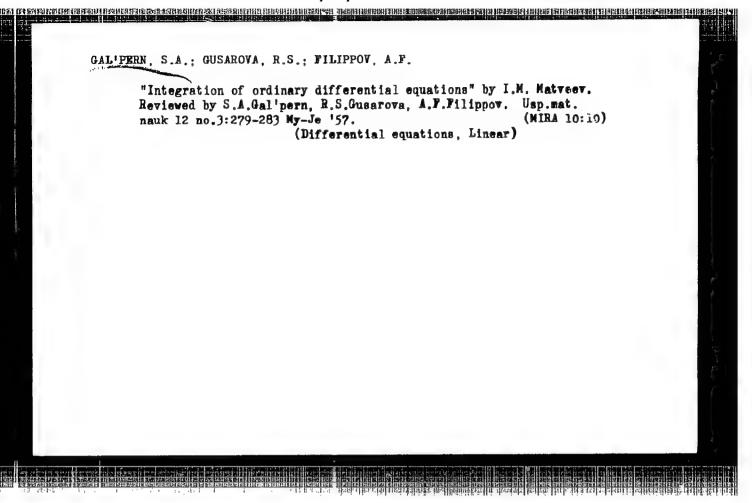
PETROVSKIY, I.G., akademik; GAL'PERN, S.A., dots., otv.red.

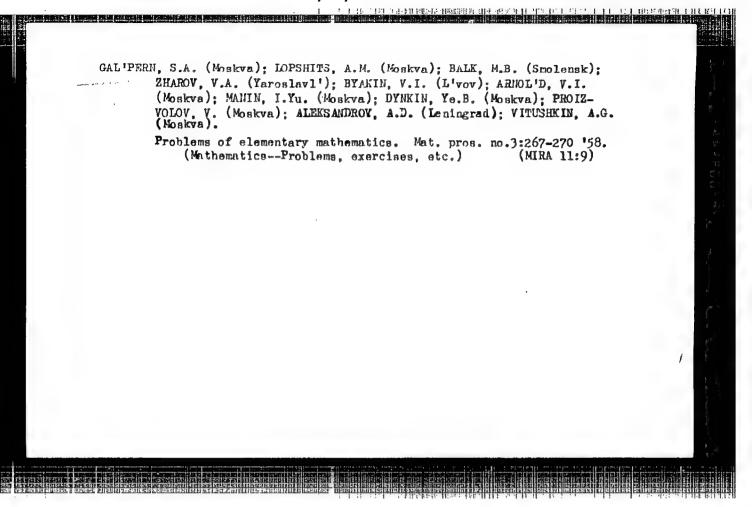
[Equations of mathematical physics; program for the MechanicsMathematics Faculty. Majors: Mechanics, satronomy] Programms po
uravnentism matematicheskof fiziki dila mekhaniko-matematicheskog
fakul'teta. Septsial'nosti - mekhanika, astronomiia. 1956. 1 p.

(MIRA 11:3)

1. Moscow. Universitet.

(Mathematical physics--Study and teaching)





AUTHOR:

Gallpern, S.A. (Moscow)

20-119-4-4/59

TITLE:

Cauchy's Problem for General Systems of Linear Partial Differential Equations (Zadacha Koshi dlya obshchikh sistem lineynykh uravneniy s chastnymi proizvodnymi)

PERIODICAL:

Doklady Akademii Nauk 1958, Vol 119, Nr 4, rp 640-643(USSR)

ABSTRACT:

Let the system

$$\frac{\partial}{\partial t} \left[ M(t, \frac{1}{i} \frac{\partial x_k}{\partial x_k}) \right] u - L(t, \frac{1}{i} \frac{\partial}{\partial x_k}) u$$

be given, where  $\mathbf{x}_k$  denotes the arguments  $\mathbf{x}_1,\dots,\mathbf{x}_n$ , M and L are quadratic polynomial matrices with respect to the opera-

tions  $\frac{1}{i} \frac{\partial}{\partial x_k}$  and possess coefficients depending on t, and u

is the sought vector function with N components. Let the initial conditions be

(2) 
$$u(t_0, x_k) = \varphi(x_k)$$
.

Let the coefficients of (1) be continuous functions of t,

Card 1/3

Cauchy's Problem for General Systems of Linear Partial Dif- 20-119-4-4/59 ferential Equations

 $t_0 \le t \le T$  . After the Fourier transformation

$$v_{i} = \frac{1}{(2\pi)^{n}} \int u_{i} e^{-i(\alpha,x)} dx_{1} ... dx_{n} , \quad (\alpha,x) = \sum_{k=1}^{n} \alpha_{k} x_{k}$$

one obtains

(3) 
$$\frac{d}{dt} \left[ h(t, \alpha_k) \bar{v} \right] = L(t, \alpha_k) \bar{v}$$

The functions  $v^1 = (v_1^1, v_2^1, \dots v_N^1)$  are assumed to form the

fundamental system of solutions of (3), whereby it is

$$\left\|\mathbf{v}_{\mathbf{i}}^{1}\right\|_{\mathbf{t}=\mathbf{t}_{\mathbf{0}}} = \mathbf{E} .$$

Theorem: If  $\|v_i^1\|$  is bounded for all  $\ll$  and  $t_0 \leqslant t \leqslant T$  and for  $\ll \to \infty$  does not increase quicker than  $\ll^{\mathfrak{D}}$ , p>0, then the formulas

Card 2/3

PRIVALOV, Ivan Ivanovich [deceased]; GAL'PERN, Samariy Aleksandrovich; UCAROVA, N.A., red.; MURASHOVA, N.Ya., tekhn.red.

[Fundamentals of analysis of infinitely small numbers; manual for self-education] Osnovy analiza beskonechno malykh; posobie dlia samoobrasovaniis. Izd.3., perer. Moskva, Gos. izd-vo fiziko-matem.lit-ry, 1959. 251 p. (MIRA 12:7) (Calculus)

3000€

S/550/60/009/000/005/008 D251/D305

16,3000

AUTHOR:

Gal'pern, S.A.

TITLE:

Cauchy's problem for a general system of linear equations with partial derivations

SOURCE:

Moskovskoye matematicheskoye obshchestvo. Trudy, v. 9, 1960, 401 - 423

X

TEXT: The results of this article were reported to the Moscow Mathematical Association on May 20, 1958. The author states the basic case of Cauchy's problem for a system of partial differential equations in the variables  $(t, x_1, x_2, \dots, x_n)$ . Cauchy's initial conditions are

$$u(t_0, x_k) = \varphi(x_k). \tag{2}$$

In the case of homogeneous equations the basic system may be written in matrix form

$$\frac{\theta}{\partial t} \left[ M(t, \frac{1}{i} \frac{\theta}{\theta x_k}) u \right] = L(t, \frac{1}{i} \frac{\theta}{\theta x_k}) u$$
 (1')

Card 1/7

30006

S/550/60/009/000/005/008 D251/D305

Cauchy's problem for a general ...

where  $\mathbf{t}$ ,  $\frac{1}{1} \frac{\partial}{\partial \mathbf{x}_k}$ ) =  $\mathbf{L}_1(\mathbf{t}, \frac{1}{1} \frac{\partial}{\partial \mathbf{x}_k}) - \frac{\partial}{\partial \mathbf{t}} \mathbf{M}(\mathbf{t}, \frac{1}{1} \frac{\partial}{\partial \mathbf{x}_k})$ . The coefficients

of (1') are assumed to be continuous complex functions the real variable t where  $0 \le t \le T$ . Applying a Fourier transformation and simplifying, gives

 $M(t, \alpha_k) \frac{dv}{dt} = L_1(t, \alpha_k).$  (3)

After establishing some basic lemmas, the author states and proves the following existence theorems, using the methods of Bochner (Ref. Fouriesche Integrale, 1932). Theorem 1: If the terms of the fundamental matrix  $//v_1^2//$  of the system (3') satisfies the conditions

$$|\mathbf{v}_{1}^{\ell}| \leqslant \frac{\mathbf{A}}{\alpha/\mathbf{q}}, \mathbf{q} \geqslant 0$$
 (A<sub>1</sub>)

for  $/\alpha/\leqslant$  1 and  $0\leqslant t_0\leqslant t\leqslant T$  and

$$v_1^{\ell} / \leqslant A/\alpha/p, \quad p > 0$$
 (A<sub>2</sub>)

Card 2/7

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s/550/60/009/000/005/008 D251/D305

Cauchy's problem for a general ...

for  $/\alpha/>1$ , then the formula

$$\mathbf{u}_{1} = \int \sum_{\ell=1}^{N} \mathbf{v}_{1} \mathbf{E} \boldsymbol{\varphi}_{\ell} e^{i(\alpha \mathbf{x})} d\alpha_{1} \dots d\alpha_{n}$$
 (12)

gives the solution of the problem (1') - (2) if the initial functions  $\varphi_i$  satisfy the following conditions:  $a_1$ ) all moments from i up to the order  $\eta = q - n + 1$  exist and equal zero up to  $\eta - 1$ , i.e.

$$I_{s_1}, \dots, s_n = \int (x_1)^{s_1} \dots (x_n)^{s_n} \varphi_1(x_k) dx_1 \dots dx_n = 0$$
 (13)

for all integral  $s_k > 0$  such that

$$\sum_{k=1}^{n} s_{k} < \eta - 1, /I_{s_{1}}, \ldots, s_{n} / \leq A$$

Card 3/7

30006 \$/550/60/009/000/005/008 D251/D305

Cauchy's problem for a general ...

with  $\sum_{k=1}^{n} s_k = \eta$ ;  $a_2$ ) the function  $\varphi_i$  together with derivatives of order  $\left[\frac{n}{2}\right] + p + k + 1$  belong to  $L_{1,2}$ . Here and henceforth is the operators

 $M(t, \frac{1}{1}, \frac{\theta}{\theta})$   $L(t, \frac{1}{1}, \frac{\theta}{\theta})$ .

Theorem 2: Let  $l_1, \ldots, l_n$  be non-negative integers, k as defined above, and u the solution of  $(1^i)$  - (2) then the expression

 $\mathbf{x}_{1}^{l_{1}}\mathbf{x}_{2}^{l_{2}}\cdots\mathbf{x}_{n}^{l_{n}}\mathbf{D}^{k_{0}}\mathbf{u}$ , where  $l_{1}+\cdots+l_{n}<\mathbf{L}$ , and  $k_{0}<\mathbf{k}$  (21)

belongs to  $L_{1,2}$  if (1) conditions  $(a_1)$  and  $(a_2)$  of Theorem 1 are satisfied [Abstractor's note: A is written for a in the text in both cases] (2)  $M(t, \alpha_k) = /\alpha/c$   $(\alpha_0 + \dots + \alpha_g/\alpha/g) \neq \text{Cord } /\alpha/g \neq 0$ . Also Card 4/7

Cachy's problem for a general ...

30006 S/550/60/009/000/005/008 D251/D305

$$\lambda = ([\frac{n}{2}] + L + 1)(r + p) + r + r - L.$$
 (25)

The following uniqueness theorem is stated and proved: Theorem 3: If conditions 1), 2), 3) of Theorem 2 are satisfied then the solution of the problem (1') - (2) with zero initial conditions is such that  $/D^{\sigma}$  u/  $\leq$  A/x/L where  $\sigma$   $\leq$  k, L  $\geqslant$  0 and the conditions

$$M(t, \frac{1}{i} \frac{\partial}{\partial x_k}) u = P(t, x_k)$$
 (41)

$$L(t, \frac{1}{i} \frac{\partial}{\partial x_k}) u = \frac{P(t_s x_k)}{\partial t}$$
 (42)

are satisfied, where the coefficients of the vector function P(t,  $\mathbf{x}_k$ ), dependent on t, are of power not higher than  $\eta$  where

$$\eta = \left[ \left( \left[ \frac{n}{2} \right] + L + 1 \right) (s + q + C) + q + C + L + \frac{3 + (1)^n}{2} \right],$$
(43)

and  $P(0, x_k) \equiv 0$ . Dependence on the initial functions - Theorem 4: Card 6/7

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5/020/60/132/05/05/069

AUTHOR: Galipern, S. A.

TITLE: Lacunes of Non-hyperbolic Equations 16

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 5, pp. 990 - 993

TEXT: The domains of the plane t = 0 in which the values of the initial data have no influence on the value of the solution in the point M are denoted as lacunes. In the case of hyperbolic equations the existence of lacunes has been investigated by J. G. Petrovskiy (Ref.1), V. A. Borovikov (Ref.2) and others. The author gives a class of non-hyperbolic equations with lacunes. The simplest equation of this kind is

(1) 
$$\frac{\partial^2 \Delta w}{\partial t^2} = \sum_{i=1}^{n} \frac{\partial^4 w}{\partial x_i^2}$$

A more complicated example is given by the equations

(3) 
$$Q\left(\frac{\partial t}{\partial t} + \frac{\partial x_1}{\partial x_2} - - \frac{\partial}{\partial x_n}\right) w = 0$$

Card 1/2

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**81689** \$/020/60/132/05/05/069

Lacunes of Non-hyperbolic Equations

where Q is a homogeneous polynomial with constant coefficients and must satisfy certain additional conditions. The author gives a method which permits to conclude the existence of the lacunes for (3) from wellknown criteria for the hyperbolic case.

J. M. Gel'fand and G. Ye Shilov are mentioned in the paper.

There are 4 references: 3 Soviet and 1 American.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

PRESENTED: February 25, 1960, by J. G. Petrovskiy, Academician

SUBMITTED: February 25, 1960

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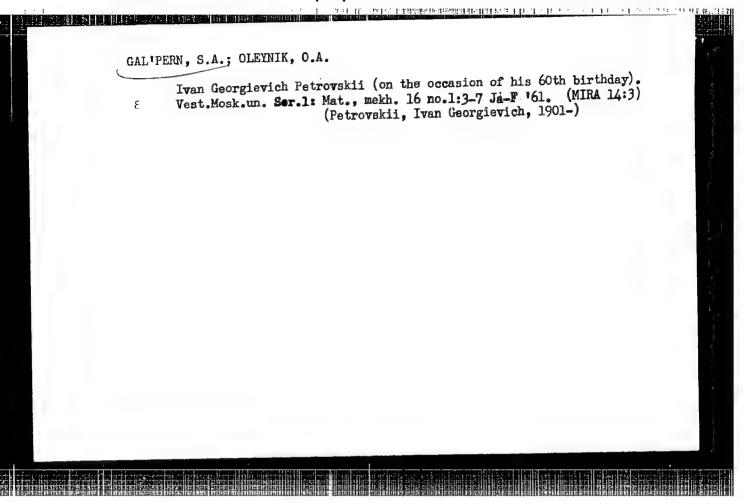
Card 2/2

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GAL'PERN, S. A., DOC PHYS-MATH SCI, "CAUCHY'S PROBLEMS
FOR GENERAL SYSTEMS OF LINEAR EQUATIONS WITH PARTIAL DERIVATIVES." MOSCOW, 1961. (MOSCOW ORDER OF LENIN AND ORDER OF LABOR RED BANNER STATE UNIV IN M. V. LOMONOSOV).

(KL, 3-61, 202).

25



#### "APPROVED FOR RELEASE: 07/16/2001 C

## O1 CIA-RDP86-00513R000614130008-8

5/0141/62/000/009/017/069 A060/A000

AUTHOR:

Gal'pern, S. A.

TITLE:

Lacunae in nonhyperbolic equations

PERIODICAL:

Referativnyy zhurnal, Matematika, no. 9, 1962, 51, abstract 9B246 (In collection: "Funktsional'n. analiz i yego primeneniye". Baku,

AN AzerbSSR, 1961, 33)

TEXT:

The paper investigates differential equations with constant coeffi-

cients of the form

 $Q\left(\frac{\partial}{\partial t}, \frac{\partial}{\partial x_1}, \dots, \frac{\partial}{\partial x_n}\right) u = 0,$ 

where  $Q(\lambda, \xi_1, \ldots, \xi_n)$  is a homogeneous polynomial of degree 1 in  $\lambda, \xi_1, \ldots, \xi_n$  and of degree m < 1 in  $\lambda$ :

 $Q(\lambda, \xi_1, \ldots, \xi_r) = P_{1-m}(\xi_1, \ldots, \xi_n)\lambda^m + \ldots + P_1(\xi_1, \ldots, \xi_n).$ 

It is assumed that  $P_{1-m}(\xi_1, \ldots, \xi_n)$  and  $P_1(\xi_1, \ldots, \xi_n)$  do not vanish for

Card 1/2

Lacunae in nonhyperbolic equations

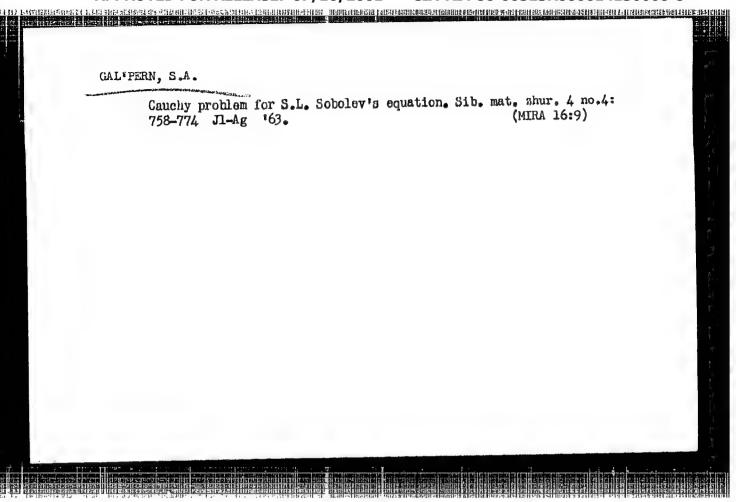
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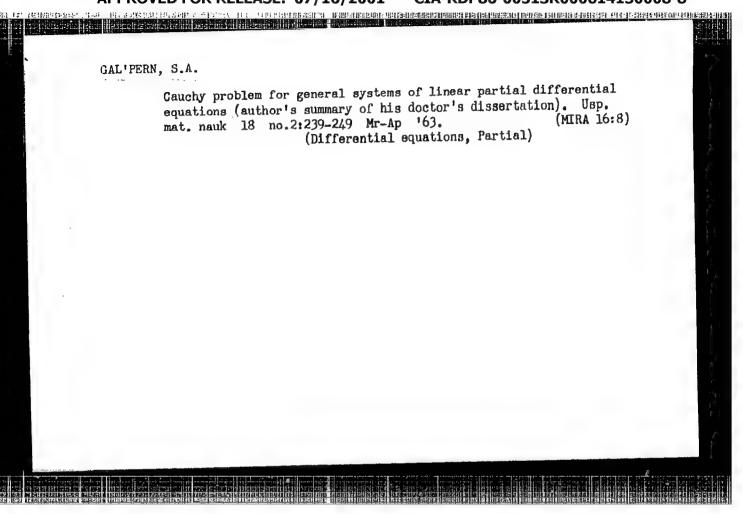
 $\sum \xi_1^2 = 1$ , and that the equation  $Q(\lambda, \xi_1, \ldots, \xi_n) = 0$  has m real distinct roots in  $\lambda$  for  $\sum \xi_1^2 = 1$ . Then, if n > m-1 and n is odd, the neighborhood of the origin of coordinates is a lacuna. The method of constructing a lacuna is also indicated.

Author's summary

[Abstracter's note: Complete translation]

Card 2/2





ACCESSION NR: AP4012958

S/0020/64/154/004/0757/0759

AUTHORS: Gal'pern, S.A.; Kondrashov, V.Ye.

Cauchy problem for a differential operator decomposing into TITLE:

wave factors

SOURCE: AN SSSR. Doklady\*, v.154, no.4, 1964, 757-759

cauchy problem, wave equation, differential operator, differential equation, partial derivative, mathematical physics, plane wave

This work is devoted to the Cauchy problem for the equation ABSTRACT:

 $\mathcal{L}u \equiv \prod_{k=1}^{\infty} \left( \frac{\partial^{k}}{\partial t^{2}} - \frac{1}{u_{k}^{2}} \Delta \right)^{\prime k} u (x, t) = 0,$ (1)

where

 $|a_1>a_2>...>a_l>0; \ \Delta=\sum_{i=0}^{n}\frac{\partial^2}{\partial x_i^2}; \ x=(x_1,...,x_n)$ 

Let 2m be the order of equation (1);

Card 1/3

ACCESSION NR: AP4012958

itial conditions are such that

$$\frac{\partial^2 u}{\partial t^2} = f_s(x), \quad s == 0, 1, \ldots, 2m-1. \tag{2}$$

The solution to this equation can be obtained if the solution to the problem with such initial conditions is such that

$$\frac{\partial^{n} u}{\partial t^{2}}\Big|_{t=0} = 0, \quad \mathbf{s} = 0, 1, \dots, 2m-2,$$

$$\frac{\partial^{2m-1} u}{\partial t^{2m-1}}\Big|_{t=0} = f(x), \quad \mathbf{s} = 2, m-1.$$
(3)

are known. In the case where  $r_1=r_2=\dots=r_1=1$ , the solution can be obtained by means of the classical Herglotz-Petrovskiy formulas for a homogeneous and strictly hyperbolic equation. It is of some interest to obtain formulas for solving the problem through the spherical means of the initial functions, i.e. formulas which are analogous to the generally known formulas, yielding a solution to the Cauchy problem for a wave equation. The authors obtained such formulas for the solution of (1) with unrestricted  $r_k$ . These formulas help to determine precisely the degree of smoothness of the initial functions. They are also useful in solving the problem of the nature of the

Card

AGGESSION NR: AP4012958

relationship of a solution to the equation in the apex of the characteristic cone to the values of the initial functions in each of those domains on which the surface of the characteristic cone lays out the plane of the initial data, i.e. when some of these domains will be gaps or weak gaps. The Cauchy problem with ini-tial conditions of the general form (2) can be reduced to a Cauchy problem (3) and solution of the problem (2) is a linear combination of solutions of the type (3) and their derivatives with respect to t. Orig. art. has: 5 equations.

ASSOCIATION: Moskovskiy gosudarstvenny\*y universitet im. M.V. Lomonosova (Moscow State University)

SUBMITTED: 310ct63

DATE ACQ: 26Feb64

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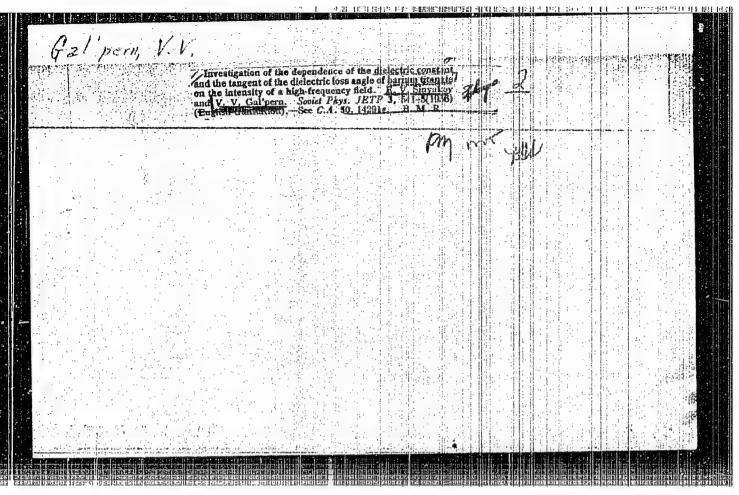
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OTHER: 001

•	AAT EDUDIT II	
1.	GALIFURN, V.	ı

- 2. USSR (600)
- 4. Machinery Maintenance and Repair
- 7. Restoration of metal parts worn out to the limit. Za ekon. mat., No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.



USSR / Radiophysics

: Ref Zhur - Fizika, No 4, 1957, No 10035 Abs Jour

Author

: Cinyakov, E.V., Galpern, V.V. : Dnepropetrovsk University, USSR

Inst Title

: Investigation of the Dependence of the Dielectric Constant

and the Tangent of the Dielectric Loss Angle of Barium Titanate on the Intensity of the High Frequency Electric

Field.

Orig Pub : Zh. eksperim. i teor. fiziki, 1956, 30, No 4, 675-680

Abstract : A method is described for the investigation of the dependence of the dielectric constant and the tangent of the dielectric loss angle of barium titanate on the electric field intensity at various temperatures with the aid of a measuring circuit, containing a linear variable capacitor, whose rotor is driven by electric motor at 1,500 rpm. During one half of the period, the capacitance varies linearly, and during the second half it diminishes. Over this cycle, upon suitable choice of parameters, the circuit is twice in resonance with the generator, and the resonance is fixed on the oscillogram in the form of two resonance curves. By connecting

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USSR / Radiophysics

Ι

Abs Jour : Ref Zhur - Fizika, No h, 1957, No 10035

Abstract : the tested capacitor in parallel the peaks of the resonant curves are shifted by an amount proportional to the capacitance connected; the shift serves as a measure of this capacitance. Heating of the specimen upon application of a high field (up to 3.2 kv/cm) is prevented by the short time of application of the high frequency field (0.1 seconds). The maximum error in the measurement of capacity is estimated at 2%, and in the measurement of the tangent of the loss angle at 25%.

The tangent of the dielectric loss angle is determined by the method whereby the circuit is detuned as the voltage is measured with a vacuum tube voltmeter.

It is shown that the non linearity of C = f (E), the temperature behavior of the capacitance, and the tangent of the loss angle for barium titanate at high frequency and in strong fields all have a character analogous to that observed in weak

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CIA-RDP86-00513R000614130008-8

USSR / Radiophysics

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Abs Jour : Ref Zhur - Fizika, No h, 1957, No 10035

Abstract : fields. At a frequency of 1 Mc the capacitance is less and the nonlinear properties are less strongly pronounced than at a frequency of 50 cycles. In addition, the tangent of the loss angle depends weakly on the field intensity. A more pronounced manifestation of the nonlinear properties of barium titanate in the region of the Curie point is attributed by the authors to the fact that the rotation of the moments under the influence of the external field is facilitated in this region.

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: 3/3 Card

AUTHOR: Gal'pern, V.V. (Engineer) SOV/110-59-4-19/23

TITLE: The Determination of Inductance Defects in Loading

Coils of Communications Cables (Opredeleniye braka po induktivnosti v katushkakh pupinizirovannykh kabeley

svyazi)

PERIODICAL: Vestnik Elektropromyshlennosti, 1959, Nr 4, p 68 (USSR)

ABSTRACT: In manufacturing communications cables with loading coils it is important that the inductance of the loading coils should be right, and in particular inductances of

should be right, and in particular inductances of different coils should not differ by more than ± 1.5%. Coils of the wrong inductance are usually located by bridge methods but in some cases this is not convenient. This article proposes a new method of inspecting for inductance which is of more general application and which also can reveal which of the loading coils at the line ends is the cause of trouble. An audio-frequency generator and valve volt-meter are connected to one end of the line. The generator is tuned to resonance frequency which is recognised by the valve voltmeter readings.

Card 1/2 Since the cables capacitance is usually known, and in any case measured, the inductance can be determined from the

The Determination of Inductance Defects in Loading Coils of Communications Cables

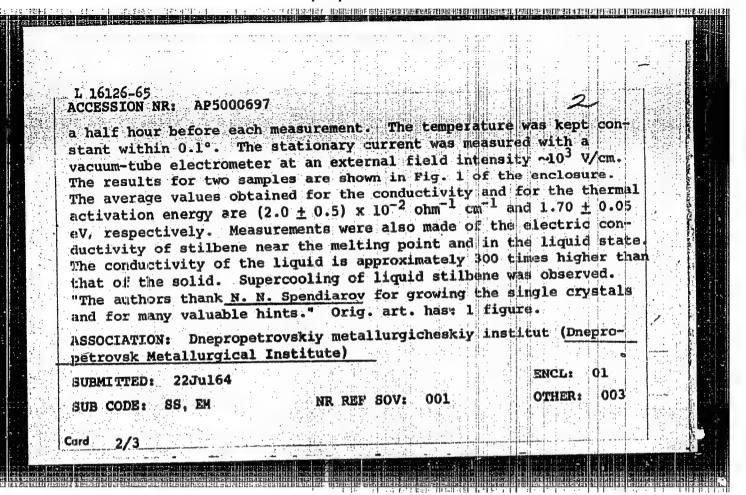
resonant frequency. If there are loading coils at each end of the line the test is made from each end in turn and then the defective coil can easily be located. The method has proved effective and economical in service. There are 1 figure and 2 Soviet references.

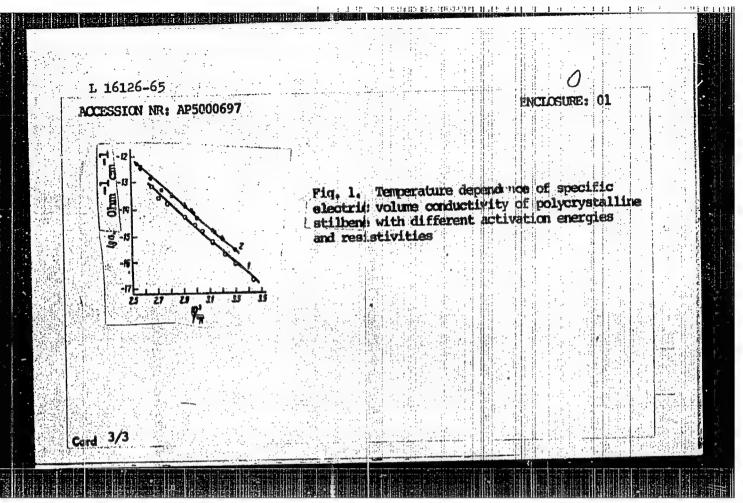
SUBMITTED: February 14, 1958

Agnaratus fir detecting the specific charge of an electron for use in laboratory work in general physics. Isv. vys. ucheb. zav.; fis. no.6:169-170 '60. (MIRA 14:3)

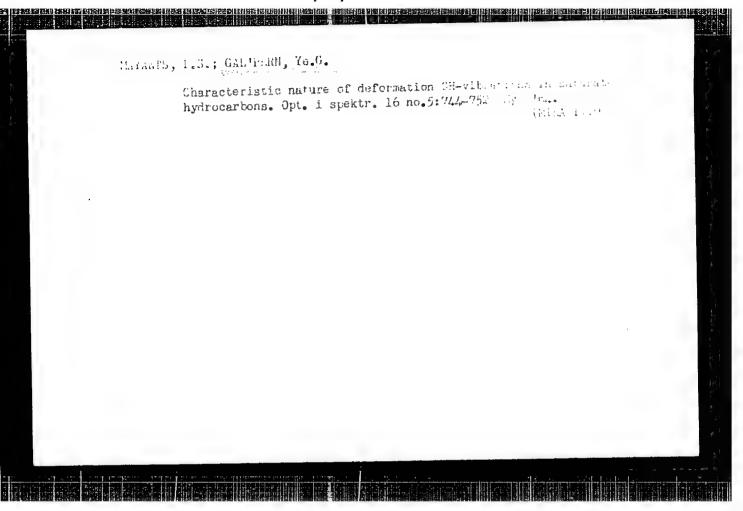
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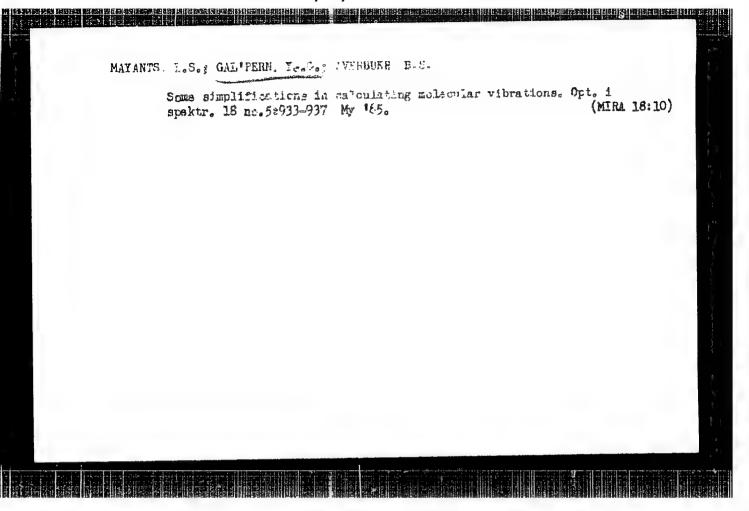
L 16126-65 EWT(m) ASD(a)-5/AFETR JD/JW/RM s/0181/64/006/012/3750/3751 ACCESSION NR: AP5000697 AUTHORS: Gal'pern, V. V.; Radchenko, I. V. TITLE: Temperature dependence of the dark electric conductivity of stilbene 1 SOURCE: Fizika tverdogo tela, v. 6, no. 12, 1964, 3750-3751 TOPIC TAGS: stilbene, electric conductivity, dark current, temperature dependence, activation energy, solid phase, liquid phase ABSTRACT: This investigation was stimulated by the lack of published data on the conductivity of bulk stilbene. In view of the brittleness of stilbene single crystals the measurements were made with polycrystals made from single crystals to ensure purity. The procedure is briefly described. An electrode system with a guard ring was used to determine the volume current. The sample was heated at a rate of 10--15 deg/hr and kept at constant temperature for about





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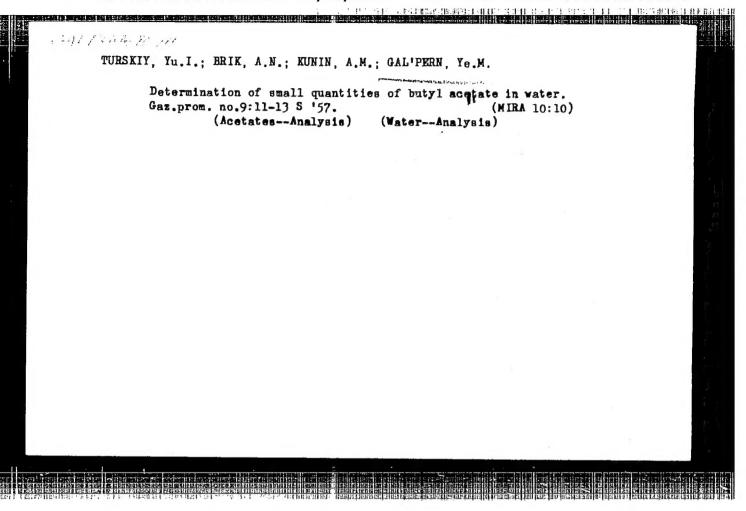
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Zhurastruktakhima 6 no.52785-787 9-0 165. (MRE 13:22)
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Schmitted Mirch 4, 1965.

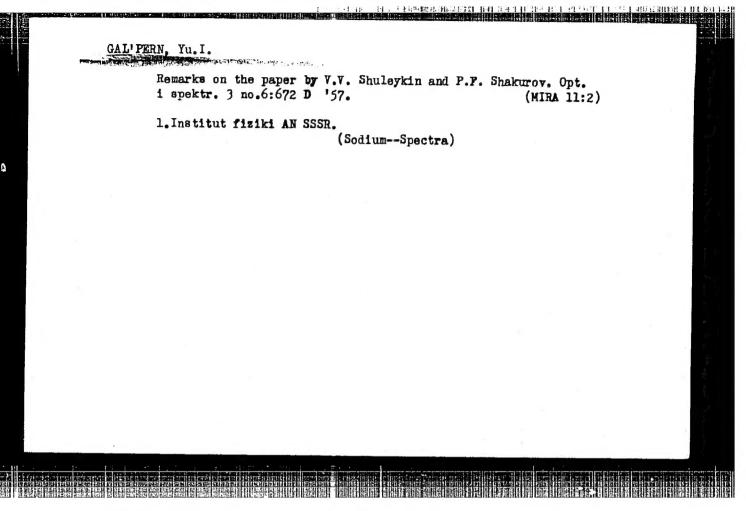
GALIFAN, Ye.L.; TERMINASOV, Yu.S.

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(Iron-silicon alloys)





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